

Datasheet for ABIN3090306

CC2D1A Protein (AA 1-951) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	CC2D1A
Protein Characteristics:	AA 1-951
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CC2D1A protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MHKRKGPPGP PGRGAAAARQ LGLLVDLSPD GLMIPEDGAN DEELEAEFLA LVGGQPPALE KLKGKGPLPM EAIEKMASLC MRDPDEDEEE GTDEDDLEAD DDLLAELNEV LGEEQKASET PPPVAQPKPE APHPGLETTL QERLALYQTA IESARQAGDS AKMRRYDRGL KTLNLLASI RKGNAIDEAD IPPPVAIGKG PASTPTYSPA PTQPAPRIAS APEPRVTLEG PSATAPASSP GLAKPQMPPG PCSPGPLAQL QSRQRDYKLA ALHAKQQGDT TAAARHFRVA KSFDVLEAL SRGEPVDLSC LPPPPDQLPP DPPSPPSQPP TPATAPSTTE VPPPPRTLLE ALEQRMERYQ VAAAQAKSKG DQRKARMHER IVKQYQDAIR AHKAGRAVDV AELPVPPGFP PIQGLEATKP TQQSLVGVLE TAMKLANQDE GPEDEEDEVV KKQNSPVAPT AQP KAPPSRT PQSGSAPTAK APPKATSTRA QQQLAFLEGR KKQLLQAALR AKQKNDVEGA KMHLRQAKGL EPMLEASRNG LPVDITKVPP APV NKDDFAL VQRP GPGLSQ EAARRYGELT KLIRQQHEMC LNHSNQFTQL GNITETTKFE KLAEDCKRSM DILKQAFVRG LPTPTARFEQ RTFSVIKIFP DLSSNDMLLF IVKGINLPTP PGLSPGDL DV FVRFD FPYPN VEEAQKDKTS VIKNTDSPEF KEQFKLCINR
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SHRGFRRAIQ TKGIFEVVH KGGLFKTDRV LGTAQLKLD ALEIACEVREI LEVL DGR RPT
GGRLEVMVRI REPLTAQQL ETTTERWLVID PVPAAVPTQV AGPKGKAPPV PAPARESGNR
SARPLHSLSV LAFDQERLER KILALRQARR PVPPEVAQQY QDIMQRSQWQ RAQLEQGGVG
IRREYAAQLE RQLQFYTEAA RRLGNDGSRD AAKEALYRRN LVESELQRLR R

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

Product Details

- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	CC2D1A
Alternative Name:	CC2D1A (CC2D1A Products)
Background:	Coiled-coil and C2 domain-containing protein 1A (Akt kinase-interacting protein 1) (Five prime repressor element under dual repression-binding protein 1) (FRE under dual repression-binding protein 1) (Freud-1) (Putative NF-kappa-B-activating protein 023N),FUNCTION: Transcription factor that binds specifically to the DRE (dual repressor element) and represses HTR1A gene transcription in neuronal cells. The combination of calcium and ATP specifically inactivates the binding with FRE. May play a role in the altered regulation of HTR1A associated with anxiety and major depression. Mediates HDAC-independent repression of HTR1A promoter in neuronal cell. Performs essential function in controlling functional maturation of synapses (By similarity). Plays distinct roles depending on its localization. When cytoplasmic, acts as a scaffold protein in the PI3K/PDK1/AKT pathway. Repressor of HTR1A when nuclear. In the centrosome, regulates spindle pole localization of the cohesin subunit SCC1/RAD21, thereby mediating centriole cohesion during mitosis. {ECO:0000250, ECO:0000269 PubMed:20171170}.
Molecular Weight:	104.1 kDa
UniProt:	Q6P1N0

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process